

PATENT
Atty. Dkt. No. NVDA P000721

REMARKS

Applicant's representative would like to thank the examiner for the telephone interview held on February 17, 2006.

Claims 1-8, 16-17, 20 and 22-26 were pending in the application. By way of this amendment, claims 2, 8 and 17 have been cancelled and claims 33-39 have been added.

The claims were rejected under 35 U.S.C. § 103 as unpatentable over Krech (U.S. Patent No. 6,057,852). This rejection is respectfully traversed.

The present invention provides a generalized technique for generating primitive extensions that is applicable to different types of primitive extensions including the ones shown in Table III of the present application. The generalized technique, as recited in the pending claims, includes the steps of retrieving parameters associated with the primitive including width (w), step size (s) and anchor width (a), and generating the primitive extension using the parameters. As shown in Table III, different types of connected primitives have different w, s and a values. Figures 9A-B, 10A-B, 11A-B and 12A-B and the corresponding descriptions illustrate the use of the w, s and a parameters in generating a tri-fan, quadrilateral-strip, cube strip, and tetrahedron-fan, respectively, and the data stream corresponding to each. The generalized technique according to the present invention is thus shown to be applicable to different types of connected primitives so long as the appropriate w, s and a parameters are retrieved and used in generating the primitive extension.

In the Office Action, the examiner concedes that "Krech may not [have] used the same terminology as applicant, for example, parameters w, s and a" but argues that "Krech clearly teaches or suggests how to generate the primitive extension based on the information as [provided] in the Table I," further reasoning that "[t]he information [is] inherently related to the claimed parameters, such as, w, s and a in order to properly generate the primitive extension."

PATENT
Atty. Dkt. No. NVDA P000721

Applicant respectfully submits that Krech, in Table I, Figs. 5A-G, and the corresponding description, does no more than describe the inherent attributes of a primitive extension such as a triangle fan and a triangle strip. The recognition that a result (primitive extension) contains certain inherent attributes does not teach or suggest in any way that such attributes were retrieved and used in generating the result. Other ways of generating the result are possible. In Krech, the inherent attributes of a primitive extension such as a triangle fan and a triangle strip w, s and a parameters are described, but this disclosure fails to teach or suggest in any way that such parameters are retrieved according to the primitive extension type and used in generating the vertices or vertex data of the primitive extension, as required by the pending claims. Thus, the pending claims are patentable over Krech.

Claim 1 has been amended to more particularly point out how the (w, s, a) parameters are used in generating the vertices of the primitive extension. As recited, the vertices of the originating primitive are used as the first w vertices of the primitive extension. The vertices of the originating primitive also include a number anchor vertices (a = 0, 1, 2, ...) of the primitive extension. The other vertices of the primitive extension are generated by generating one or more additional vertices for each of the connected primitives. The number of vertices generated for each of the connected primitives is equal to the step size (s). Claim 1 and its dependent claims are further patentable over Krech because Krech fails to teach or suggest these features.

Claim 16 has been amended to more particularly point out how the (w, s, a) parameters are used in generating the ordered data stream corresponding to a primitive extension. As recited, the vertex data of the originating primitive, which includes a number anchor vertex data (a = 0, 1, 2, ...) of the primitive extension, are included in the ordered data stream. The other vertex data of the primitive extension that are included in the ordered data stream are generated by generating one or more vertex data for each of the connected primitives. The number of additional vertex data generated for each of the connected primitives

PATENT
Atty. Dkt. No. NVDA P000721

is equal to the step size (s). Claim 16 and its dependent claims are further patentable over Krech because Krech fails to teach or suggest these features.

In view of the foregoing, the application is now in condition for allowance, and an early notice of the same is respectfully requested.

Respectfully submitted,



Frederick Kim
Registration No. 38,513
PATTERSON & SHERIDAN, L.L.P.
3040 Post Oak Blvd. Suite 1500
Houston, TX 77056
Telephone: (650) 330-2310
Facsimile: (650) 330-2314
Attorney for Applicants